Intelligent Design and Engineering of Aerospace Systems IDEAS 2019

Thursday August 15, 2019			
Time	Торіс	Presenter/Room	
08:30 - 09:00	Workshop Registration		
09:00 - 09:30	NASA Background and Perspective	Ajay Misra, Deputy Director of Research, NASA GRC	
09:30 - 10:00	AFRL Life Cycle Management Propulsion Directorate Digital Management	Michael Metzger, Digital Engineering IPT Lead Engineer, AFRL	
10:00 – 10:15	Break and Networking	Lobby	
10:15 – 10:45	DOE Background and Perspective	Richard Dennis, Technology Manager, Advanced Turbines & Supercritical CO_2 Power Cycle Program, U.S. Department of Energy	
10:45 – 11:45	Open Collaboration Session	NASA SMEs Available in Industry Room	
11:45 – 13:00	Lunch, discussions, and demos		
13:00 – 14:00	Role of AI in AR Applications for Maintenance (Talk and Demo)	Shivakumar Sastry, University of Akron	
14:00 – 14:30	Wall modeled large-eddy simulations of low in rotating frames of reference-comparing a physic-based approach to a data-based approach	Xiang Yang – PennState University	
14:30 – 15:00	Break and Networking	Lobby	
15:00 – 15:30	Adaptive Software and Structural Analysis, Design and Health Monitoring using Machine Learning	Rakesh Kapania Virginia Polytechnic Institute and State University	
15:30 – 16:00	One on One Session		

	Friday August 10, 2019
8:30 - 09:00	Introduction to

08:30 - 09:00	Introduction to Day 2	
09:00 - 09:30	GE Perspective on AI in propulsion	Gary Wendt, GE Aviation
09:30 - 10:00	AI in Propulsion – Mechanics, Machine Learning and Multidisciplinary Optimization	Nagendra Somanath (Advanced Technology and Preliminary Design, Pratt and Whitney) and Soumalya Sarkar (research Engineer, UTRC)
10:00 - 11:00	Government Only Session 1	Boardroom
	GVIS demos	Lobby
11:00 – 12:00	AI in Design and Modeling	Panel Discussion (GE, P&W, UTRC, AF, DOE, Solar Turbines)
12:00 – 13:00	Lunch	
13:00 – 16:00	Ideation Session – Priority Areas, Road-mapping activity	Rebecca Kwiat, ATS, NASA GRC
16:00 – 16:30	Closing Remarks	